

tion in chemical physics as well as to benefit from the contacts with the specialists in the field. There will be only one formal lecture or conference a day, leaving time free for special conferences with specialists or for sports on the island. The island has an excellent golf course, perfect tennis courts, ideal swimming accommodations, and the fishing in the Chesapeake Bay which borders the island is unexcelled. A dense forest covers part of the island. The plan is a combination of conferences and vacation so arranged as to provide sufficient time for both. It is believed that the group contacts during the time of recreation is one of the opportunities which the plan affords.

The number attending will be limited, partly due to the limited facilities of the island and partly due to the desire to keep it sufficiently small to give each man registered the privilege of making contacts with specialists. All may be housed at the club house or adjacent cottages.

Since the conferences will cover frontier material, some modifications of the program may be made, depending upon the progress of work before the conferences, but the following gives the general program:

**A. SURFACE PHENOMENA.** Dr. Irving Langmuir. June 25-29.

The week's conferences include a series of lectures and discussions on various problems associated with "surface phenomena."

**B. THERMAL ENERGY AND THE STRUCTURE OF MOLECULES.** Professor Donald H. Andrews. July 2-6.

The recent developments in the quantum theory of the chemical bond have served to emphasize the importance of knowing how the thermal energy in molecules is distributed. The piling up of energy at a particular point may play a major rôle in determining the course of a chemical reaction. It is proposed to devote this week to a discussion of some of the recently accumulated evidence which can be brought to bear on the question of the distribution of thermal energy in molecules and its relation to the nature of the chemical bond. The lecturers and their subjects are: Dr. Donald H. Andrews, "The Distribution of Thermal Energy in Molecules at Low Temperatures," "The Bending of the Chemical Bond." Dr. John R. Bates, "Molecular Structure and Chemical Reactions." Dr. Charles P. Smyth, "The Effect of Dipole Forces upon the Energies of Crystalline Lattices and Molecules." Dr. Donald H. Andrews, "The Effect of Isotopes on the Thermal Energy of Crystal Lattices and Molecules."

**C. HEAVY HYDROGEN.** Dr. Harold C. Urey. July 9-13.

These conferences consist of lectures and discussions grouped around work in progress on the isotopes of hydrogen, as follows: Dr. F. G. Brickwedde, "Vapor Pressures of the Hydrogens and the Discovery of Deuterium." Dr. H. S. Taylor, "The Electrolytic Method of Separating the Hydrogen Isotopes." Dr. Harold C.

Urey, "The Thermodynamic Properties of the Hydrogens and Their Compounds," "The Effect of Mass on the Kinetics of Chemical Reactions," "Transmutation Reactions."

**D. THE STRUCTURE OF SOLIDS, LIQUIDS AND GASES.** Dr. Maurice L. Huggins. July 16-20.

A series of lectures, with informal discussion, participated in by the lecturers and other research workers in these fields. Dr. Maurice L. Huggins, "Principles Determining Arrangements of Atoms, Ions and Molecules in Crystals." Dr. Sterling B. Hendricks, "Irregularities in Crystal Lattices." Professor B. E. Warren, "X-ray Diffraction in Glasses and Liquids." Professor Eric R. Jette, "Crystal Structure Studies in Metallic Alloy Systems." Dr. L. R. Maxwell, "The Structure of Gaseous Molecules as Determined by Electron Diffraction."

It is possible to register for the entire session or any week unit. This enables those having a limited vacation to attend one or more weeks as suits their convenience. Advanced registration is advisable. The special registration for these conferences is five dollars per week or twenty dollars for the four weeks. Information regarding the special rates for board and room on the island, advance registration or other inquiries may be requested through Professor Neil E. Gordon, Department of Chemistry, the Johns Hopkins University, Baltimore, Md.

**THE INTERNATIONAL CONGRESS OF THE ANTHROPOLOGICAL AND ETHNOLOGICAL SCIENCES**

THE first session of an International Congress of Anthropological and Ethnological Sciences will be held in London, under royal patronage, from July 30 to August 4. It is to include all those departments of research which contribute to the scientific study of man, and in their application to races, peoples and modes of life.

The congress was planned more than twenty years ago by a small international committee at the invitation of the Royal Anthropological Institute and the first session was to have been held in 1916. The congress as now established is to meet at intervals of four years midway between the sessions every four years of the International Congresses of Prehistoric and Protohistoric Sciences established in 1932. It is designed to take place in the years in which the Americanist Congress meets in Europe, as it does this year at Seville.

Meetings this summer will be held at University College, Gower Street, and at the Wellcome Historical Medical Museum. Lord Onslow is the president, and Captain T. A. Joyce, of the British Museum, chairman of the executive committee. H. G. Beasley is the treasurer, and the secretaries are A. H. Brodric



and Professor J. L. Myres, with Adrian Digby, of the British Museum, as assistant secretary. The presidents of the various sections will be Professor G. Elliot Smith (Anatomy and Physical Anthropology), F. C. Bartlett (Psychology), Professor C. B. Fawcett (Demography and Population Problems), Dr. A. C. Haddon (Ethnography), the Rev. Edwin Smith, president of the Royal Anthropological Institute (Subsection of African Ethnography), Henry Balfour (Technology or Arts and Crafts), Professor C. G. Seligman (Sociology), Professor E. O. James

(Religions) and Dr. Alan H. Gardiner (Language and Writing).

The vice-presidents of the congress include the Archbishop of Canterbury, the Lord Mayor of London, the director of the British Museum, the High Commissioners for India and the Union of South Africa, Sir James Frazer and the presidents of the Society of Antiquaries, the Folklore Society and the Royal Asiatic Society. Information may be obtained from the secretaries, care of Royal Anthropological Institute, 52, Upper Bedford Place, London, W.C.1.

## SCIENTIFIC NOTES AND NEWS

DR. WILLIAM MORTON WHEELER, professor of entomology at Harvard University and dean of the Bussey Institution from 1915 to 1929, has been named an officer of the Legion of Honor by the French Government, in recognition of "his great achievements in the field of biology and in appreciation of his sympathetic understanding of the progress of science in France." Dr. Wheeler will become professor emeritus at the close of the current academic year.

DR. WERNER HEISENBERG, professor of theoretical physics at the University of Leipzig, now at Magdalen College, Oxford, has been appointed Rouse Ball lecturer at the University of Cambridge for the year 1933-34.

A BRONZE portrait bust of Frank J. Sprague, who played a large part in the development of electric transportation, was presented to the American Institute of Electrical Engineers at the opening of the recent annual convention at the Engineering Society's Building, in New York City. The bronze was the gift of the Frank J. Sprague Anniversary Committee. Frank Hedley, president of the Interborough Rapid Transit Company, made the presentation speech.

PRESENTATION of the William Lawrence Saunders gold medal for 1933 was made to Pope Yeatman, consulting mining engineer of New York City, at the annual dinner of the American Institute of Mining and Metallurgical Engineers on February 23. The medal was awarded in recognition of Mr. Yeatman's "distinguished achievements as a mining engineer; for his vision in recognizing the value of mineral deposits and his ability in successfully developing them, and for his outstanding executive ability in the management of extensive operations." Former recipients of the medal have been Herbert Hoover, John Hays Hammond, D. C. Jackling, F. W. MacLennan, D. W. Brunton and F. W. Bradley.

DR. CHARLES R. AUSTRIAN, associate professor of medicine at the Johns Hopkins University School of Medicine, was presented with the gold medal of the

Phi Lambda Kappa medical fraternity at its recent annual convention in Washington, D. C. The medal is awarded annually to the "Jewish physician considered as having contributed most to medical science in the preceding year."

SIR WILLIAM LARKE, director of the National Federation of Iron and Steel Manufacturers; Professor Edward Mellanby, secretary of the Medical Research Council, and Leonard Woolley, director of the Joint Expedition of the British Museum and of the Museum of the University of Pennsylvania to Mesopotamia, have been elected members of the Athenæum Club under the provisions which empower the annual election by the committee of a certain number of persons of distinguished eminence in science, literature, the arts or for public service.

A DINNER was given in London on January 23 by the surgical staff of St. Mary's Hospital and the lecturers of the medical school to the dean, Dr. C. M. Wilson, and to Mrs. Wilson, in commemoration of the completion of the building of the new school and its opening in December by the King and Queen. Sir William Willecox presided, and presented to Dr. Wilson a silver cup, a copy of the famous Fire of London Cup, dated 1665, and a framed illuminated address with the names of all the subscribers. The raising of the necessary funds, £250,000, and the plans for the building of the new school were due to Dr. Wilson's efforts over a period of many years.

DR. JAMES R. WITHROW, professor of chemical engineering and head of the department at the Ohio State University, was recently elected a director and member of the Council of the American Institute of Chemical Engineers.

DR. WILLARD R. JILLSON, geologist of the Mid-continent and Appalachian oil fields, formerly for fourteen years state geologist of Kentucky, was elected on January 17 vice-president of the newly organized Kentucky Society of Professional Engineers.

DR. W. H. TWENHOFEL, professor of geology at